



Missouri Annual Crop Summary

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2010 Crops, United States

Unseasonably warm temperatures over much of the country east of the Rocky Mountains in April allowed spring fieldwork to advance ahead of normal while rainfall was plentiful in the west, alleviating prolonged drought conditions in areas. By April 25, half of the 2010 corn crop had been planted, the earliest date on record that progress had reached the midpoint. Favorable planting conditions carried over in the first part of May while historic rains in parts of Kentucky and Tennessee caused severe flooding. Below average temperatures and wet weather over much of the Midwest and portions of the Plains during the middle part of May hampered planting and threatened emerged plants. As of May 30, 74 percent of soybeans were planted, one point behind normal.

Warmer than normal temperature prevailed across much of the country during June, promoting rapid summer crop development in some areas, while negatively impacting crop conditions in others. The warm, mostly dry weather for much of the major winter wheat producing regions during mid June provided ideal harvest conditions. Above average precipitation fell on much of the Great Plains and Midwest during July, with areas east of the Mississippi River and west of the Rocky Mountains were dry. Abnormally dry condition developed in the lower Midwest into the Ohio Valley in August while portions of Iowa received in excess of 12 inches of rainfall completely saturating low-lying cornfields. Unseasonably warm temperatures from the Great Plains to the Atlantic Coast promoted the rapid phenological development of many row crops.

Above average temperatures and relatively dry conditions across much of the U.S. in October promoted the quickest harvest pace in over 19 year for corn and soybeans. Timely late month storm aided small grain establishment in parts of the Great Plains while winter wheat establishment was negatively impacted by the dry conditions in portions of the central and southern Great Plains. By month's end, the soybean harvest was 96 percent complete 17 points ahead of normal. Corn harvest reached 96 percent by November 7th, 43 days ahead of last year. By November 28, cotton harvest was 91 percent complete.

Soybeans: Production in 2010 totaled 3.33 billion bushels, down 1 percent from 2009. United States production is the

second largest on record. The average yield per acre is estimated at 43.5 bushels, 0.5 bushel below last year's record high yield. Harvested area is up slightly from 2009 to a record high 76.6 million acres.

Corn: Production in 2010 is estimated at 12.4 billion bushels, 5 percent below the record high production of 13.1 billion bushels set in 2009. United States grain yield for 2010 is estimated at 152.8 bushels per acre. This is down 11.9 bushels below the record high yield of 164.7 bushels per acre set in 2009. Area harvested for grain is estimated at 81.4 million acres, up 2 percent from 2009.

Wheat: Production totaled 2.21 billion bushels in 2010, down less than 1 percent from 2009. Grain area is 47.6 million acres down 5 percent from last year. The U.S. yield is a record high 46.4 bushels per acre, 1.9 bushels higher than 2009.

Sorghum grain production in 2010 is estimated at 345 million bushels, 10 percent below 2009. Planted area is estimated at 5.40 million acres, down 19 percent from last year. Area harvested for grain, at 4.81 million acres, is down 13 percent from 2009. Average grain yield, at 71.8 bushels per acre, up 2.4 bushels from last year.

Rice: Production in 2010 is estimated at a record high 243 million cwt, up 11 percent from 2009. Planted area is estimated at 3.64 million acres, up 16 percent from 2009. Area harvested, at 3.62 million acres, up 17 percent from the previous crop year. The average yield for all United States rice is estimated at 6,725 pounds per acre, down 360 pounds from the 2009 yield.

Cotton: Production is estimated at 18.3 million 480-pound bales, up 50 percent from 2009. The United States yield is estimated at 821 pounds per acre, up 44 pounds from last year. Harvested area is at 10.7 million acres, up 42 percent from last year.

Hay: Production of dry hay for 2010 is estimated at 146 million tons, down 1 percent from the 2009 total. Area harvested, at 59.9 million acres, up slightly from 2009. The average yield, at 2.43 tons per acre, is nearly the same as last year's yield of 2.47.

2010 Crops, Missouri

Above average temperatures and little precipitation through much of April allowed the saturated soils to dry. The week ending April 25 saw the second consecutive week of over a million crop acres planted. Corn planting was 69 percent complete while rice planting was 84 percent complete. Soybean and sorghum planting was just beginning with 5 percent and 7 percent completed, respectively. Spring tillage was over 2 weeks ahead of normal at 69 percent complete. Heavy rainfall slowed fieldwork at the end of April through the first week of May. Fieldwork resumed briefly the second week of May until wet weather returned for the middle of the month. Dry weather the final week of May allowed soybean plantings to increase 26 points to 48 percent complete. Corn planting ended the month 95 percent complete 4 days ahead of normal while cotton planting was completed. Alfalfa and other hay cuttings were 4 days behind normal. May rainfall averaged 6.79 inches across the State compared to the 30-year average of 4.68 inches.

Wet condition in northern Missouri over much of June limited fieldwork with the northern 3 districts receiving between 8.51 and 9.52 inches of precipitation. Dry conditions in June across the southern third of the State lead to topsoil moisture conditions in the south-central and southeast districts that were 93 and 94 percent short to very short, respectively, by July 4th. Soybean and sorghum planting were near completion as dry weather prevailed Statewide the last week of June into early July. Wheat harvest neared completion by mid July, 8 days ahead of normal. General rainfall Statewide during the middle of July improved topsoil moisture supply and slightly improved crop conditions. Heavy rains and flooding caused damage in the northeast and north-central districts during the week of July 25 with Adair and Shelby counties receiving 10.09 and 9.65 inches, respectively. As of August 1, other hay cut at 93 percent and second cutting of alfalfa at 87 percent were 3 and 7 days behind, respectively. Above average temperatures and below average rainfall during August left most crop development ahead of normal with the corn, sorghum, and rice harvest underway. The dry conditions in the southern third of the State returned with a range of 85 to 95 percent of the topsoil moisture short to very short. Over 30 percent of the pasture, condition was poor to very poor across the State while the south third of the State ranged from 71 to 77 percent poor to very poor.

A wet September over much of Missouri with 8.22 inches of rain limited, harvest progress except in the southeast district where 3.46 inches fell. This drier weather in the southeast district allowed for most of the corn, 83 percent of the rice, and 31 percent of the cotton to be harvested by September 26. With under an inch of precipitation throughout October, harvest and winter wheat seedings made significant progress. Over 2 million acres were harvested the first two weeks of October. Rice and cotton harvests finished 31 and 38 days ahead of normal, respectively. As of November 7, only 3 percent of the

soybeans and 2 percent of the corn and sorghum were still in the field. Wheat seeding was 97 percent complete while germination had been poor due to dry topsoil moisture conditions of 66 percent short to very short Statewide.

Missouri soybean production totaled 210 million bushels in 2010, down 9 percent from the 2009 crop. Farmers in Missouri harvested 5.07 million of the 5.15 million acres planted in the state, 4 percent below last year. Missouri yields averaged 41.5 bushels per acre, down 2 bushels from last year. Value of production was estimated at \$2.55 billion, up 15 percent from last year.

Corn production in **Missouri** during 2010 totaled 369 million bushels, 17 percent below last year. Disappointing yields for the State averaged 123 bushels per acre, down 30 bushels from the 2009 yield. Corn for grain was produced from 3.00 million acres, while 60,000 acres were cut for silage, producing 900,000 tons. Acreage harvested for grain was 3 percent above last year while silage acreage was up 10,000 acres. Value of the crop was \$2.01 billion, up 26 percent from 2009.

Missouri produced 12.6 million bushels of **winter wheat** in 2010, down 63 percent from 2009. Farmers planted 370 thousand acres, harvesting 280 thousand for grain both new record lows. Yield of 45 bushels per acre was 2 bushel below 2009. The crop was valued at \$64.9 million, 66 percent below last year.

Missouri grain sorghum production totaled 2.57 million bushels, down 30 percent from 2009. This is the lowest production since 1955 when 2.51 million bushels were produced. Planted acreage, at a record low 40,000 acres, was down 10,000 acres from the previous record low in 2009. Sorghum was harvested for grain from 33,000 acres with an average yield for the State at 78 bushels per acre, 8 bushels below 2009. Silage was cut from 5,000 acres with a record yield of 13 tons per acre, 1,000 acres above last year. Value of production was estimated at \$13.8 million, up 13 percent from 2009.

Missouri cotton production is estimated at 685,000 bales, 36 percent above 2009. The State yield is estimated at 1,068 pounds per acre, 141 pounds above last year's yield. Planted acreage of 310,000 acres was 14 percent above last year, while farmers harvested 308,000 acres, 18 percent above a year earlier.

Missouri rice production during 2010 totaled a record 16.3 million cwt, 21 percent above last year's crop and 15 percent above the previous record production in 2005. Yield is estimated at 6,480 pounds per acre, 230 pounds below the 2009 level. Producers harvested a record 251,000 acres. Value of production came in at \$184 million, 6 percent above 2009.

Commercial **potato** production in **Missouri** for 2010 totaled 2.16 million cwt, 11 percent above the 2009 production. The 7,200 acres harvested produced a yield of 300 cwt, up 25 cwt. from last year. There were 7,300 acres planted, unchanged from a year earlier. Value of production was \$22.5 million, up 10 percent from a year earlier.

Missouri oat production in 2010 totaled 360,000 bushels, 27 percent smaller than the 2009 crop. There were 20,000 planted acres with 8,000 harvested for grain. The State oat

yield averaged 45 bushels per acre, down 10 bushels from the 2009 average. The value of the crop was estimated at \$1.01 million, down 25 percent from last year.

Hay production in **Missouri** totaled 7.51 million tons, 7 percent below the 2009 production. Missouri hay yields averaged 1.96 tons per acre, compared with 2.07 a year earlier. Harvested area of all hay was 3.84 million acres, a decrease of 1 percent from 2009. The 2010 hay crop was valued at \$507 million, 7 percent above 2009.

Missouri Crop Production, 2009-2010

| Crop | Unit | Acres Harvested | | Yield per Acre | | Production | |
|------------------------|------|------------------|-------|----------------|-------|------------------|---------|
| | | 2009 | 2010 | 2009 | 2010 | 2009 | 2010 |
| | | <i>Thousands</i> | | <i>Bushels</i> | | <i>Thousands</i> | |
| Corn for Grain | bu | 2,920 | 3,000 | 153.0 | 123.0 | 446,760 | 369,000 |
| Corn for Silage | ton | 50 | 60 | 16.0 | 15.0 | 800 | 900 |
| Sorghum for Grain | bu | 43 | 33 | 86.0 | 78.0 | 3,698 | 2,574 |
| Sorghum for Silage | ton | 4 | 5 | 9.0 | 13.0 | 36 | 65 |
| Soybeans | bu | 5,300 | 5,070 | 43.5 | 41.5 | 230,550 | 210,405 |
| Winter Wheat | bu | 730 | 280 | 47.0 | 45.0 | 34,310 | 12,600 |
| Oats | bu | 9 | 8 | 55.0 | 45.0 | 495 | 360 |
| All Rice ^{1/} | cwt | 200 | 251 | 6,710 | 6,480 | 13,423 | 16,254 |
| Cotton ^{2/} | lb | 260 | 308 | 927 | 1,068 | 502 | 685 |
| Cottonseed | ton | --- | --- | --- | --- | 192.5 | 239 |
| All Hay | ton | 3,880 | 3,840 | 2.1 | 2.0 | 8,040 | 7,512 |
| Alfalfa Hay | ton | 280 | 240 | 3.0 | 2.8 | 840 | 672 |
| Other Hay | ton | 3,600 | 3,600 | 2.0 | 1.9 | 7,200 | 6,840 |

^{1/} Yield in pounds, production in hundredweight.

^{2/} Yield in pounds, production in 480 lb. bales.

Value of Missouri Crop Production, 2009-2010

| Crop | Unit | Average Value Per Unit | | Value of Production | |
|--------------------|------|------------------------|--------|-------------------------|-----------|
| | | 2009 | 2010 | 2009 | 2010 |
| | | <i>Dollars</i> | | <i>Thousand Dollars</i> | |
| Corn for Grain | bu | 3.58 | 5.45 | 1,599,401 | 2,011,050 |
| Grain Sorghum | cwt | 5.86 | 9.55 | 12,135 | 13,766 |
| Soybeans | bu | 9.61 | 12.10 | 2,215,586 | 2,545,901 |
| Winter Wheat | bu | 4.29 | 5.15 | 147,190 | 64,890 |
| Oats | bu | 2.70 | 2.80 | 1,337 | 1,008 |
| All Rice | cwt | 12.90 | 11.30 | 173,157 | 183,670 |
| All Hay | ton | 63.00 | 74.00 | 472,200 | 506,616 |
| Alfalfa Hay | ton | 125.00 | 133.00 | 105,000 | 89,376 |
| Other Hay | ton | 51.00 | 61.00 | 367,200 | 417,240 |
| Cotton | lb | 0.585 | 0.688 | 140,962 | 226,214 |
| Cottonseed | ton | 170.00 | 170.00 | 32,725 | 40,630 |
| Total Crops | --- | --- | | 5,266,893 | 6,100,361 |

United States Crop Production, 2009-2010

| Crop | Unit | Acres Harvested | | Yield per Acre | | Production | |
|------------------------|------|------------------|--------|----------------|-------|-----------------|--------|
| | | 2009 | 2010 | 2009 | 2010 | 2009 | 2010 |
| | | <i>Thousands</i> | | <i>Bushels</i> | | <i>Millions</i> | |
| Corn for Grain | bu | 79,490 | 81,446 | 164.7 | 152.8 | 13,092 | 12,447 |
| Corn for Silage | ton | 5,605 | 5,567 | 19.3 | 19.3 | 108 | 107 |
| Sorghum for Grain | bu | 5,520 | 4,808 | 69.4 | 71.8 | 383 | 345 |
| Sorghum for Silage | ton | 254 | 273 | 14.5 | 12.5 | 3.6 | 3.4 |
| Soybeans | bu | 76,372 | 76,616 | 44.0 | 43.5 | 3,359 | 3,329 |
| Wheat | bu | 49,893 | 47,637 | 44.5 | 46.4 | 2,218 | 2,208 |
| Oats | bu | 1,379 | 1,263 | 67.5 | 64.3 | 93 | 81 |
| All Rice ^{1/} | cwt | 3,103 | 3,615 | 7,085 | 6,725 | 220 | 243 |
| Cotton ^{2/} | lb | 7,529 | 10,707 | 777 | 821 | 12.2 | 18.3 |
| Cottonseed | ton | --- | --- | --- | --- | 4.1 | 6.2 |
| Tobacco | lb | 354 | 337 | 2,323 | 2,133 | 823 | 720 |
| All Hay | ton | 59,775 | 59,862 | 2.5 | 2.4 | 148 | 146 |
| Alfalfa Hay | ton | 21,247 | 19,956 | 3.4 | 3.4 | 71 | 68 |
| Other Hay | ton | 38,528 | 39,906 | 2.0 | 2.0 | 77 | 78 |

^{1/} Yield in pounds, production in hundredweight.

^{2/} Yield in pounds, production in 480 lb. bales.

^{3/} Yield in pounds

Value of United States Crop Production, 2009-2010

| Crop | Unit | Average Value Per Unit | | Value of Production | |
|--------------------|------|------------------------|--------|------------------------|---------|
| | | 2009 | 2010 | 2009 | 2010 |
| | | <i>Dollars</i> | | <i>Million Dollars</i> | |
| Corn for Grain | bu | 3.55 | 5.40 | 46,734 | 66,650 |
| Grain Sorghum | cwt | 5.75 | 9.80 | 1,207 | 1,743 |
| Soybeans | bu | 9.59 | 11.70 | 32,145 | 38,915 |
| Wheat | bu | 4.87 | 5.70 | 10,654 | 12,992 |
| Oats | bu | 2.02 | 2.40 | 208 | 214 |
| All Rice | cwt | 14.40 | 12.40 | 3,209 | 3,075 |
| All Hay | ton | 108.00 | 112.00 | 14,716 | 14,401 |
| Alfalfa Hay | ton | 113.00 | 118.00 | 7,942 | 7,519 |
| Other Hay | ton | 97.30 | 96.00 | 6,774 | 6,882 |
| Cotton | lb | 0.648 | 0.832 | 3,788 | 7,318 |
| Cottonseed | ton | 158.00 | 161.00 | 670 | 1,004 |
| Tobacco | lb | 1.837 | 1.771 | 1,511 | 1,274 |
| Total Crops | --- | | | 129,558 | 161,987 |